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Attention: **Examiner Ben Wang**   **Department:** 2192
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From: _____ Paul D. Greeley, Esq. _____

Applicant:	Jeffrey B. Scott
Serial No.:	10/729,767
For:	Determination of the status of an object in a source control system and a method ...
Filed:	December 8, 2003
Examiner:	Wang, Jue S.
Art Unit:	2192
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Dear Examiner Wang: Please find attached hereto the revised claims per your discussion with Applicant's representative.

Respectfully submitted,
Paul D. Greeley, Esq.
Reg. No. 31,019

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1.   (Currently amended) A source control system for a process control
system, comprising:

        a processor in a process control system;

        a database accessible by said processor to store information associated
with an object under source control to be checked-out; and

        a check-out function operable on said processor (a) to check-out said
object, wherein said object being checked out is a user defined template (UDT)
that is derived from a preconfigured block type object and that inherits pre-
defined parameters from said pre-defined block object, wherein any existing
dependent objects are children (UDTs) of said object being checked out or
instances of said object being checked out, wherein said instances are objects
that inherit block type objects and parameters of said UDT or of said children
UDTs, and wherein said stored information includes a reference to an existing
parent object, (b) to propagate changes made to said object to any of said
existing dependent objects, when said object is saved, (c) to use said information
to determine whether any of said dependent objects exist and whether at least
one parent object exists, and (d) to automatically check-out said existing
dependent objects, ~~wherein said stored information includes a reference to said
existing parent object, wherein said object being checked out is a user defined
template that is derived from a preconfigured object, and wherein said existing
dependent objects are children user-defined templates of said object being
checked out or instances of said object being checked out or of said children
user defined templates.~~

2.   (Currently amended) The system according to claim 1, wherein said
changes are further ~~comprising:~~ propagated

        ~~a propagation function operable on said processor to propagate changes
made to said object being checked out to said existing dependent objects and~~ to
said existing parent object, when said object being checked out is saved.

3.   (Canceled)

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4.   (Currently amended) The system according to claim 1, wherein said
stored information is at least one selected from the group consisting of: a name,
a version number, a type and a status, and wherein said stored information is
further used by said processor to prevent unauthorized changes to dependent
objects under control of said source control system.

5.   (Currently amended) A method of automatic check-out for a source control
system in a process control system, comprising:
        storing information associated with an object under source control to be
checked-out;
        receiving a request from a user to check-out said object;
        determining whether any dependent objects of said object being checked
out exist and whether any parent objects exist based on said information,
wherein said object being checked out is a user defined template (UDT) that is
derived from a preconfigured block type object and that inherits pre-defined
parameters from said pre-defined block object, wherein any existing dependent
objects are children (UDTs) of said object being checked out or instances of said
object being checked out, wherein said instances are objects that inherit block
type objects and parameters of said UDT or of said children UDTs, and wherein
said stored information includes a reference to said existing parent objects;
        propagating changes made to said object to any of said existing
dependant objects, when said object is saved;
        automatically checking-out said existing dependent objects when said
object is checked-out, ~~wherein said object being checked-out is a user defined
template that is derived from a preconfigured object, and wherein said existing
dependent objects are children user defined templates of said object being
checked-out or instances of said object being checked-out or of said children
user defined templates;~~ and
        providing a status to said user.

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6.   (Previously presented) The method according to claim 5, further comprising:

sorting said existing dependent objects so that said existing parents precede children.

7.   (Previously presented) The method according to claim 5, wherein one of said existing dependent objects is a derivation child of said object being checked out.

8.   (Original) The method according to claim 7, further comprising:

automatically checking-out said derivation child only if said derivation child is checked-in.

9-15. (Canceled)

16.   (Currently amended) A computer readable medium having executable instructions stored thereon to perform a method of version control for a process control system, said method comprising:

when checking-in an object, wherein said checked-in object is a user defined template (UDT) that is derived from a preconfigured block type object and that inherits pre-defined parameters from said pre-defined block object, determining relationships of said object by:

determining whether said object being checked-in has a first derivation parent;

adding a name and a version of said first derivation parent to a list of object relationships, if said object being checked-in has said first derivation parent, wherein said first derivation parent is a first parent UDT of said object being checked-in of a first instance of said object being checked-in, wherein said first instance is an object that inherits block type objects and parameters of said UDT, or of said first parent UDT;

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if said object being checked-in does not have said first derivation parent, determining ~~for~~ if each contained object, which ~~that~~ is contained in said object being checked-in, ~~whether said contained object~~ has a second derivation parent, ~~if said object being checked-in does not have said first derivation parent~~;

adding a name and a version of said second derivation parent to said list of object relationships, if said contained object being checked-in has said second derivation parent; and

providing said list of object relationships.

17. (Currently amended) A computer readable medium having executable instructions stored thereon to perform a method of automatic check-out for a source control system in a process control system, said method comprising

storing information associated with an object under source control to be checked-out;

receiving a request from a user to check-out said object;

determining whether any dependent objects of said object being checked-out exist and whether at least one parent object of said object exists based on said information, wherein said object being checked out is a user defined template (UDT) that is derived from a preconfigured block type object and that inherits pre-defined parameters from said pre-defined block object, wherein any existing dependent objects are children (UDTs) of said object being checked out or instances of said object being checked out, wherein said instances are objects that inherit block type objects and parameters of said UDT or of said children UDTs, and wherein said stored information includes a reference to said existing parent object;

propagating changes made to said object to any of said existing dependant objects, when said object is saved;

automatically checking-out said existing dependent objects when said object being checked-out is checked-out, ~~wherein said object being checked-out is a user defined template, and wherein said existing dependent objects are~~

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~~children user defined templates of said object being checked-out or instances of~~
~~said object being checked out or of said children user defined templates~~; and
    providing a status to said user.